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|-----------------------------|---------------|---------------|------------------|
| Species Tag: | 13002 | Species Name: | CH |
| Version: | 1 | | Methylidyne |
| Date: | Feb. 1984 | | X $^2\Pi$ states |
| Contributor: | H. M. Pickett | | |
| Lines Listed: | 324 | Q(300.0)= | 120.837 |
| Freq. (GHz) < | 9926 | Q(225.0)= | 91.369 |
| Max. J: | 12 | Q(150.0)= | 62.001 |
| LOGSTR0= | -9.5 | Q(75.00)= | 32.923 |
| LOGSTR1= | -6.9 | Q(37.50)= | 18.845 |
| Isotope Corr.: | 0. | Q(18.75)= | 12.201 |
| Egy. (cm^{-1}) > | 0.0 | Q(9.375)= | 8.960 |
| μ_a = | 1.46 | A= | |
| μ_b = | | B= | 425472.8 |
| μ_c = | | C= | |

The laboratory spectra of C. R. Brazier and J. M. Brown, 1983, *J. Chem. Phys.* **78**, 1608–1610, and M. Bogey, C. Demuynck, and J. L. Destombes, 1983, *Chem. Phys. Lett.* **100**, 105–109, were combined with the data of O. E. H. Rydbeck *et al.*, 1974, *Astron. Astrophys.* **34**, 479, and the predictions of the rotational lines given by J. M. Brown and K. M. Evenson, 1983, *Astrophys. J.* **268**, L51, in a fit to a Hund's case (b) Hamiltonian with eight fine structure parameters, the B and D parameters, and seven hyperfine parameters. Calculated values are given for the rotational transition. The dipole moment was taken from D. J. Phelps and F. W. Dalby, 1966, *Phys. Rev. Lett.* **16**, 3.